Listing of the Claims:

1. (Original) An apparatus for protecting an energized inductive device from an open circuit comprising:

a diode connected across terminals of the inductive device such that when the inductive device is normally energized, the diode is reversed-biased;

a spark gap connected in series with the diode; and

a housing enclosing the spark gap, the housing filled with an inert gas.

- 2. (Original) The apparatus according to claim 1 further comprising: a resistance in series with the diode and the spark gap.
- 3. (Original) The apparatus according to claim 2 wherein the resistance comprises at least one resistor.
- 4. (Original) The apparatus according to claim 1 further comprising: a charge valve operable to allow insertion of the inert gas into the housing.
- 5. (Original) The apparatus according to claim 4 further comprising: a purge valve operable to allow at least one of venting and removal of the inert gas from the housing.
- 6. (Original) The apparatus according to claim 1 wherein the inductive device is an electromagnet.
 - 7. (Original) The apparatus according to claim 6 further comprising: a resistance in series with the diode and the spark gap.

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- 8. (Original) The apparatus according to claim 7 wherein the resistance comprises at least one resistor.
- 9. (Original) The apparatus according to claim 7 further comprising: a charge valve extending into the housing, the charge valve operable to allow insertion of the inert gas into the housing.
- 10. (Original) The apparatus according to claim 9 further comprising: a purge valve extending into the housing, the purge valve operable to allow at least one of venting and removal of the inert gas from the housing.
- 11. (Original) The apparatus according to claim 1 further comprising: an air pressure gauge extending into the housing, the air pressure gauge operable to measure the pressure of the inert gas.
- 12. (Original) A method of protecting an energized inductive device from an open circuit comprising the steps of:

connecting a diode across the terminals of the inductive device such that when the inductive device is normally energized, the diode is reversed-biased;

connecting a spark gap in series with the diode; and enclosing the spark gap in a housing filled with an inert gas.

- 13. (Original) The method according to claim 12 further comprising the step of:
 - connecting a resistance in series with the diode and the spark gap.
- 14. (Original) The method according to claim 13 wherein the resistance comprises at least one resistor.

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15. (Original) The method according to claim 12 further comprising the step of:

filling the housing with the inert gas using a charge valve extending into the housing.

16. (Original) The method according to claim 15 further comprising the step of:

extending a purge valve into the housing, the purge valve operable to allow at least one of venting and removal of the inert gas from the housing.

- 17. (Original) The method according to claim 1 wherein the inductive device is an electromagnet.
- 18. (Original) The method according to claim 17 further comprising the step of:

 connecting a resistance in series with the diode and the spark gap.
- 19. (Original) The method according to claim 18 wherein the resistance comprises at least one resistor.
- 20. (Original) The method according to claim 17 further comprising the step of:

filling the housing with the inert gas using a charge valve extending into the housing.